



Published weekly for employees of Lawrence Livermore National Laboratory

Friday, December 5, 2003

Vol. 28, No. 48

Nanoscience serving BioSecurity

By Anne M. Stark

NEWSLINE STAFF WRITER

Imagine a place where a scientist uses the light emitted from a single molecule to understand how proteins repair damaged DNA, while another scientist is using tiny nuclear magnetic resonance coils to make a rapid hand-held detector for biological and chemical agents.

The BioSecurity and Nanosciences Laboratory (BSNL) is that place. In existence for nearly four years, scientists working in the BSNL explore the microscopic world of living organisms, many of which are harmful biological pathogens such as viruses, spores and bacteria, as well as biological toxins and protein machines.

Working with a plethora of new technologies, the scientists support internal program areas aligned with the Laboratory's national security mission and work to improve human health with fundamental and applied research.



JACQUELINE MCBRIDE/NEWSLINE

Andrew Quong, deputy director of the BSNL, explains how the BioAerosol Mass Spectrometer (BAMS) identifies airborne particles at the single-cell level.

See **BNSL**, page 3

Six Laboratory physicists selected as fellows of the American Physical Society

Six Laboratory physicists have been named fellows of the American Physical Society, marking a second year in which the Lab is home to one of the largest selections of fellows in a single year.

Last year, seven Lab physicists were named APS fellows. Joining that rank this year are John Castor, Giulia Galli, Stephen Hatchett, Richard Klein, Christian Mailhot and Erich Ormand.

Each year, no more than one-half of 1 percent of the current APS membership is recognized by their peers through election to the status of fellow in the American Physical Society. APS fellowship recognizes members who have made advances in knowledge through original research and publication, or those who have made significant and innovative contributions in the application of physics to science and technology. APS fellows also may have made significant contributions to the teaching of physics or service and participation in the activities of the society.

Three of this year's fellows come from the Defense and Nuclear Technologies AX Division — John Castor, Steven Hatchett and Richard Klein.

See **FELLOWS**, page 8

State of the Lab address Wednesday

Director Michael Anastasio will deliver a State of the Lab address at 2 p.m. Wednesday, Dec. 10, in the Bldg. 123 auditorium. The presentation will be broadcast on Lab TV channel 2.

Commission says S&T should be key to contract competition

A blue ribbon commission suggests that management contracts for most of the Department of Energy laboratories should be competed, emphasizing science and technology output as key factors for determining who wins those contracts. The report also suggests that management for both Lawrence Livermore and Los Alamos national laboratories be bid separately.

The Blue Ribbon Commission report on the Use of Competitive Procedures for the DOE Labs was released to the public last week. DOE established the commission to examine if the use of competition of management contracts of the national laboratories could assist DOE in achieving and maintaining "increasingly

See **CONTRACTS**, page 8

Russ Miller tapped to lead security

By David Schwoegler

NEWSLINE STAFF WRITER

Laboratory Safeguards & Security Organization Director David Leary announced the selection of Russell G. Miller as department head for Safeguards and Security, effective immediately.

Leary noted that he is "...looking to Russ to provide the leadership, oversight, and direction to create cost-effective security and ensure protection of personnel, information, property and nuclear materials here at the Laboratory."

"I've been in this business for some time, and this is an excellent organization that we have here at Livermore," Miller said. "I hope to keep the spotlight shining — for all the right reasons — on what we do for the Laboratory."

Joining the department in



Russell G. Miller

December 2001 as deputy department head, Miller provided leadership, oversight and direction with a focus on the Protective Force, and Information & Personnel Security Divisions. He has been acting department head since retirement in July 2003 of his predecessor, Joe Krueger.

Earlier, Miller served 24 years with the United States Secret Service. Among his assignments, he had been responsible for the physical security and development of security technology at the White House complex. He retired as special agent in charge of the San Francisco Field Office.

Immediately before coming to the Lab, Miller served six years as the direc-

See **MILLER**, page 8

Lab computational muscle flexed at SC2003

The Lab was well represented at last month's SC2003 supercomputing and networking conference in Phoenix.

Jim McGraw, deputy director of LLNL's Institute for Scientific Computing Research, headed up the conference as general chair, while Dave Cooper, former associate director for Computation, chaired the Exhibits

Committee. Numerous LLNL personnel served on the conference organizing and support committees, while others took prominent positions in technical workshop sessions.

By attracting 7,641 registered attendees and 219 exhibitors, the conference set records for the 16-year-old

See **SUPERCOMPUTING**, page 7



**Bringing 2003
campaign
HOME**
— Page 3



**Engineering
award for
Sommargren**
— Page 4



**Lab delegates
at governor's
inaugural**
— Page 7



LAB COMMUNITY NEWS

Weekly Calendar

Technical Meeting Calendar, page 4

Friday
5

A **Fidelity retirement counselor** will be available today. To set up a one-on-one consultation with a Fidelity representative, call 800-642-7131. When calling, be sure to specify that you are an employee.

Sunday
7

Join **astronaut Piers Sellers** for a slideshow presentation of his experiences aboard the shuttle Atlantis in the presentation "An Ecologist in Space: The Earth from 240 Miles Up." The talk will take place at 3:30 p.m. today at the UC Berkely campus, 2050 Valley Life Sciences Building. Sellers worked with (now) Berkeley professor Inez Fung at NASA as part of the team that revolutionized the study of biology on a global scale.

Monday
8

The Livermore Amador Valley Transit Authority (LAVTA), which operates **WHEELS bus service**, will hold a public hearing at 4 p.m. today about proposed service changes. The hearing will be held at the LAVTA offices located at 1362 Rutan Ct. #100, Livermore. Proposed changes will impact WHEELS routes 3, 4, 7, 8 and 9. The public hearing follows a series of workshops to solicit passenger input regarding route cuts caused by the downturn in the economy. If approved at the public hearing, changes will go into effect Feb. 28, 2004. For more information, contact WHEELS at 455-7500 or www.wheelsbus.com.

Thursday
11

Karats Jewelry visits LLESA today and Friday, Dec. 19, from 11 a.m. -3 p.m. in Bldg. 415, room 103. They offer jewelry products that are up to 60 percent below retail.



The **Pleasanton Senior Center** is still in need of six to eight volunteers to help serve dinner and coffee on Sunday, Dec. 14, from 1:30-4 p.m. If you can help, call Sharal at 931-5372.

...

The Valley Dance Theatre presents "**The Nutcracker**" this month. Music for this production will be provided by the Livermore-Amador Symphony and Harmony Crossroads Chorus. This will be the only full-length Nutcracker production in the Bay Area with both live symphony orchestra and choir. The performances will be Saturday, Dec. 20 at 2 and 7 p.m., Sunday, Dec. 21 at 2 and 7 p.m., Tuesday, Dec. 23 at 7 p.m. at the Livermore High School Theatre, 600 Maple St., Livermore. Ground floor, reserved seat tickets are \$15 for adults and \$13 for students and seniors. Balcony seating is not reserved. Balcony tickets are \$12 for adults and \$10 for students and seniors. For information, group rates and tickets, call 243-0927.

RETIREES' CORNER

Charles Herget (Electronics Engineering, 1993) has been re-elected president of the Institute of Electrical and Electronics Engineers (IEEE) Council on Intelligent Transportation Systems (ITS) for a second term in 2004. The council on ITS has seventeen IEEE member societies representing more than 200,000 members worldwide. Charlie and his wife, Therese, recently returned from China where the council held its annual conference in Shanghai. They also visited Xi'an and Beijing.

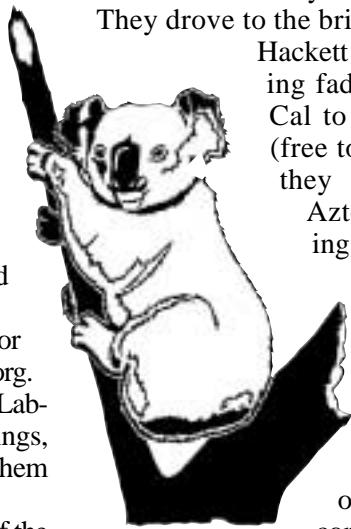
In his spare time, Charlie is the Webmaster for the LLNL Retirees Website, www.LLNLretirees.org.

Garith (Engineering, 2002) and **Amy Helm** (Laboratory Services, 2002) are moving to Palm Springs, Calif. We will really miss them and hope to see them back in the area frequently.

We will finally get back to another segment of the adventures of **Cal** (Physics, 1993) and **Dixie Wood** (Engineering, 1993). They refer to their travels as: "Here, there, but not quite everywhere." Spain treated them to late concerts and late, late dinners. In Madrid, they attended a Shakespeare performance in Spanish. Barcelona was gorgeous, with its wide, tree-lined avenues and Spanish architecture. In Valencia, they visited the famed Lladro porcelain factory and added to their collection. They visited the marvelous Alhambra, with its beautifully tiled walls and colorful gardens. In a later trip, they stayed at the beautiful Marabella beach on the coast of Spain and then visited the Canary Islands, Casablanca, Marakech and Gibraltar.

They have traveled to: Australia, where they cuddled koalas, and observed the pogo-stick-like vaulting of the kangaroo, saw the "kookaburra" bird of the childhood song; New Zealand, where they met wonderfully friendly people and were

taken to dinner by a lovely family in Auckland. They drove to the bridge where the original A. J. Hackett originated the bungee-jumping fad, stopping long enough for Cal to take his free bungee jump (free to over-60s); Mexico where they saw the ancient, original Aztec calendar in the outstanding History Museum in Mexico City. (Continued later).



Pauline Floyd has resigned as both vice-chair luncheons and treasurer of the LLNL Retirees Network Group. Anyone interested in volunteering for one of these positions should contact Alan Mode at 462-5202 or amode@ix.netcom.com.

To combat that after the holidays' letdown feeling, it's time now to make reservations for the retirees' dinner/dance event. It will be held at the usual place, the Springtown Club House, on Friday, Jan. 30. Appetizers will start at 6 p.m., dinner at 7 p.m. and dancing at 8 p.m. If you are a member of the Retirees' Network, you should have received the reservation form recently in the mail. If you are not yet a member, or if you prefer, you can make reservations on-line at www.llnlretirees.org.

The retirees will again be helping at the Lab Blood Drive the first or second week of January.

Please send any news or input to Jane or Gus Olson. E-mail: AugustO@aol.com or JaneRubert@aol.com, phone: (925) 443-4349 or mail to 493 Joyce Street, Livermore, CA 94550.

IN MEMORIAM

MaryLou Higuera

MaryLou Higuera, a Lab retiree, died Nov. 28. She was 77.

Higuera worked at the Lab for 26 years, retiring in 1981. She was a computer-programming technician who worked in Earth Sciences.

Higuera was born and raised in Clarkston, Wash., and resided in Livermore for 37 years before retiring to Donner Lake.

Higuera was an avid football fan who enjoyed both the 49ers and Raiders. Her son, Mark Higuera, who works at Sandia, described her as a

"crossword puzzle advocate" who "was great with words."

"She was very winsome and always very friendly," he said of his mother.

Survivors include her sons, Mark, Alan and Daniel, and seven grandchildren.

Services will be held at 11 a.m. Saturday, Dec. 6, at Cornerstone Fellowship in Livermore. A potluck reception will follow. Contributions in her memory may be made to Hope Hospice, 6500 Dublin Blvd., Dublin 94568.

Norman Soutar

Norman Soutar, a lifelong Fremont resident, died Nov. 14. He was 72.

Soutar was known throughout the Irvington area for his daily walks.

Born in Oakland on Feb. 28, 1931, Soutar was raised in Fremont and attended Hayward High School. He graduated from San Jose State University with a degree in engineering. He worked at the Laboratory for 28 years.

In 1957, he married his wife, Joyce.

When not working, he enjoyed playing golf, traveling and working on his Mercedes kit car.

He is survived by his daughters, Lisa Soutar of Fremont and Cindy Kremkau of Woodinville, Wash; and his mother, Sally Soutar of San Leandro.

The family requests that memorial contributions be made to a charity of choice.

Newsline

Newsline is published weekly by the Internal Communications Department, Public Affairs Office, Lawrence Livermore National Laboratory (LLNL), for Laboratory employees and retirees.

Contacts:

Media & Communications manager: Lynda Seaver, 3-3103

Newsline editor: Don Johnston, 3-4902

Contributing writers: Bob Hirschfeld, 2-2379; David Schwoegler, 2-6900; Anne M. Stark, 2-9799; Stephen Wampler, 3-3107; Gordon Yano, 3-3117. For an extended list of Lab beats and contacts, see <http://www.llnl.gov/llnl/06news/NewsMedia/contact.html>

Photographer: Jacqueline McBride

Designer: Julie Korhummel, 2-9709

Distribution: Mail Services at LLNL

Public Affairs Office: L-797 (Trailer 6527), LLNL, P.O. Box 808, Livermore, CA 94551-0808

Telephone: (925) 422-4599; Fax: (925) 422-9291

e-mail: newsline@llnl.gov or newsonline@llnl.gov

Web site: <http://www.llnl.gov/PAO/>

AROUND THE LAB



New appointment to link Lab and naval school

By Linda Lucchetti

NEWSLINE STAFF WRITER

The University Relations Program (URP) is announcing a job posting for a two-year appointment at the Naval Postgraduate School (NPS) in Monterey. This position is an important institutional outreach activity to enhance mutually beneficial interactions between the Lab and NPS. The successful candidate may be in physics, chemistry, engineering or another relevant discipline.

The position will involve teaching graduate courses and supervising student theses, performing research in areas of mutual interest to the Lab and NPS, facilitating interactions between Lab scientists and NPS faculty and students, and serving as a formal point of contact between the institutions. The appointment, which will be administered through URP, allows for the selected employee to be matrixed from his or her current Lab position and return at the end of the two-year term.

Harry Radousky, deputy director of URP, said: "This position will serve as the flagship for a growing set of interactions, and is expected to include

the signing of new memorandum of understanding between LLNL and NPS in the near future.

"The Lab will assist with NPS research and establish joint proposals of interest to DOE, collaborate in the Homeland Security arena, and offer NPS students research opportunities here at the Lab."

George Sakaldasis, of the National Security Office, noted that as a strategic initiative, the Lab is expanding its relationship with NPS.

"Such an expansion is in keeping with the Laboratory's role as a part of the University of California and its educational mission," he said. "As more of the national budget is devoted to operations like the war on terrorism, collaborative efforts between our two institutions will help to leverage the available resources devoted to research and development efforts."

"Our goal is to allow for the maximum possible interaction between our two organizations, including joint lectures, NPS students doing research at the Laboratory, and the development of joint programs that would be funded by the departments of Defense, Energy and Home-

land Security.

"In the long run, we want graduates of NPS who have become senior military officers to remember the capabilities of LLNL and to work the vital national security issues of the future in partnerships with the Laboratory. We also want Laboratory scientists to become more familiar with the military's operations and requirements," Sakaldasis added.

Bill Kruer of the Lab's AX Division in Defense and Nuclear Technologies served as the first LLNL chair professor at NPS for three years beginning in October 1998. According to Kruer: "It was very gratifying to contribute to the technical education of many bright and enthusiastic young officers and to introduce them to the impressive research capabilities at the Lab."

For more information about the Lab's two-year appointment or to apply, access the online postings at "Jobs at LLNL" and look for Job No. 001513.

For additional information, call Harry Radousky in the University Relations Program, 2-4478. To learn more about the Naval Postgraduate School in Monterey, go to the Website <http://www.nps.navy.mil>.

BSNL

Continued from page 1

BSNL Acting Director Jim De Yoreo said: "Through our investments in new infrastructure and bright young talent, over the past four years we have established a dynamic environment for pursuing leading-edge research."

"Now we want to do a better job of letting people know about what we do," said Andrew Quong, BSNL deputy director from the Chemistry and Materials Science Directorate. "We'd like to maintain our core scientific strength and work more closely with the programs."

The BSNL will have an open house for all employees on Dec. 18 from 11 a.m.-2 p.m.

Computer modeling within BSNL provides the framework to help develop and design experiments as well as develop sound hypotheses and make accurate predictions.

One of the technologies developed at BSNL is BAMS (Bio-Aerosol Mass Spectrometer) that was deployed in November 2001 to the postal sorting

facility in Florida to scan the billions of pieces of mail for any detection and identification of harmful biological or chemical aerosol particles.

Created with help from UC Davis researchers, BAMS can be used to address biodefense and public health issues. Individual airborne particles can be identified at the single-cell level in about 100 milliseconds. BAMS identifies signatures for different spores and the difference between harmful and benign spores. So far, it has identified the spore for an anthrax surrogate. The ultimate goal is instantaneous characterization of deadly airborne cells intentionally released during a biological weapons attack.

Mass spectrometry is also being used by BSNL scientists to understand the chemical response of cells following exposure to pathogens, with an eye on creating a nationwide monitoring system for disease outbreak.

Other BSNL scientists are developing synthetic membranes and nano-fibers to fight biological threats and assure water safety. Pore diameter ranges from 50 nanometers to 2.5 micrometers.

They collaborate with chemists, biologists, physicists and engineers to build durable membranes that can be used in the field.

Using atomic force microscopy, other BSNL scientists are measuring the forces that bind antibodies to proteins, mapping the architecture of viruses and spores, and learning how biological molecules inhibit kidney stone growth. By using this special type of microscope, they can make these observations at the molecular level.

Underlying many of these technologies is the synthesis of chemicals with special structures that allow them to bind to specific targets including toxins or pathogens as well as silicon surfaces.

With more than 60 multi-disciplinary scientists, more than half of whom are less than 35 years old, working at BSNL, the long-term goal is to help the programs get real devices into the field, Quong said.

"It's a very vibrant place to work," he said. "Scientifically, it's exciting and there is a growing need in these fields for the safety of the country."



JACQUELINE MCBRIDE/NEWSLINE

Longevity award for Ombuds Program

From left: Bob Smith, current chair of the Ombuds Council, and Kem Hainebach, a veteran ombud in Hazards Control, discuss the longevity award the Laboratory received from The Ombudsman Association, the largest group representing ombuds in the United States and Canada. The award is given to organizations that have had an ombuds program for more than 10 years.

Ombuds services, which had existed in some Lab organizations since the 1970s, were expanded Labwide in 1997 in response to employee suggestions in the 1995 employee survey. "The award recognizes the Lab's long term commitment to a confidential, neutral and informal channel of communication for resolving work-related issues," said Hainebach, who accepted the award in Orlando, Fla., earlier this year on behalf of the Lab program.



NEWS YOU CAN USE

Sommargren wins ASPE Award

Optical physicist Gary Sommargren has been awarded the Lifetime Achievement Award from the American Society for Precision Engineering.

The award was presented in October at the annual ASPE meeting, held in Portland.

The lifetime achievement award is designated to those individuals who, over the span of their careers, made significant contributions to the science and discipline of precision engineering.

Sommargren has devoted most of his career to solving problems in optical metrology, both at the Laboratory and Zygo Corporation.

“Gary has been an outstanding contributor to the science of precision optical metrology throughout his career,” said Steve Patterson, associate director of Engineering. “His contributions have had a major impact on the field of precision engineering. Congratulations go out to Gary for such a notable achievement.”

While at LLNL in the late 1970s, Sommargren invented the heterodyne optical profiler, an instrument used for measuring the surface roughness of optical surfaces to the sub-Angstrom level for which he received an R&D 100 Award. Sommargren’s profiler was the

benchmark optical profiler used by the optical industry to make and verify optics for laser gyroscopes. Zygo later commercialized this instrument.

During his tenure at Zygo, from 1981-91, Sommargren was responsible for developing new phase shifting algorithms for surface and wavefront interferometers, wavelength shifting interferometers, and a line of displacement measuring interferometers that exceeded the current standards in performance in resolution, slew rate and accuracy.

“Virtually all of his innovations while in industry have been commercial successes,” said Dan Thompson, a long-time colleague.

Sommargren has authored numerous technical papers and is an inventor on 31 U. S. patents.

Following his return to the Lab in 1991, Sommargren’s most notable contribution over the last several years was the invention and development of a novel phase-shifting diffraction interferometer, which is a key technology advance for the success of extreme ultraviolet lithography tools. Sommargren is currently applying this technology to astronomical problems at UC Santa Cruz.

New revisions for safety shoe voucher and purchase process

The Safety Shoe Approval Voucher (LL-4063) and process has been revised. The revision implements tighter financial process requirements by the University of California and more specific shoe selection information required by OSHA. The revised voucher is the only form that should now be used.

The revised form contains complete instructions for employees, their supervisors and TRRs and the vendors to complete the purchase of safety shoes. The revised form has three sections: Shoe selection information, to be completed by the supervisor and employee; cost account authorization and UniCard approval, to be completed by the account authorizer; and TRR, and vendor information, to be completed by the vendor.

The shoe allocation remains at \$120, but the process recognizes that some users may be required to exceed this amount (e.g., special protection features required by job, unusual size) and captures the supervisor’s justification and authorization for the additional expense. Users will still have the option of paying cash for any cost above the allocation due to their personal shoe preference.

The Safety Shoe program continues to have five authorized vendors: Iron Age; Quinvold’s; and Beck’s operate shoe mobiles that are generally on site on Mondays and alternate Wednesdays. Arrangements have been made with Sarvey’s in Tracy and Traverso Red Wing in Dublin so employees who need shoes on short notice can obtain them immediately. Use of the Safety Shoe Approval Voucher by other vendors is not authorized. For current safety shoe information, including the vendor schedule and copies of the revised form (.pdf and informed filler), visit the safety shoe Web site at http://www-r.llnl.gov/es_and_h/safetyshoes/.

Technical Meeting Calendar

Friday
5

INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS

“Probing Galaxy Formation with Gamma Rays,” by Joel Primack, UC Santa Cruz. Noon, Bldg. 319, room 205. Contact: Wil van Breugel, 2-7195, or Josie Morgado, 2-7181.

Tuesday
9

INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS

“Sputtering and Radiolysis of Icy Surfaces in Jovian and Saturnian Magnetospheres,” by Robert E. Johnson, University of Virginia. Noon, Bldg. 319, room 205. Contact: John P. Bradley, 3-0666, or Josie Morgado, 2-7181.

CENTER FOR NONDESTRUCTIVE CHARACTERIZATION

“Electrical Resistance Tomography to Monitor Mitigation of Metal-Toxic Acid-Leachates,” by Gail Heath. 1:30 p.m., Bldg. 235, Gold Room. Contact: Ann Tyler, tyler8@llnl.gov, or Lorie Goerz, goerz2@llnl.gov, to obtain the abstract.

LC CUSTOMERS MONTHLY MEETING

9:30-11 a.m., Bldg. 111, Poseidon Room (Q-Cleared area). Contact: Teresa Delpha, 3-7329.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

“A Hybrid High Order Method for the Incompressible Navier-Stokes Equations,” by Jonas Nilsson, Stanford University and “Why Are Streamline Methods Attractive for Simulation of Gas Injection Processes?” by Margot Gerritsen, Stanford University. 2 p.m., Trailer 3427, room 1220 (property protection area). For more information, see <http://www.llnl.gov/casc/calendar.shtml>. Contact: Bill Henshaw, (CASC) 3-2697, or Leslie Bills, 3-8927.

Wednesday
10

PHYSICS & ADVANCED TECHNOLOGIES

“The Effects of Ambient Neutral Gas Molecules on the Evolution of the EDG Electron Plasma,” by Kyle Morrison, Princeton Plasma Physics Laboratory. 10:30 a.m., Bldg. 219, room 163. Contact: Stefanie Landes, 2-3201.

Thursday
11

PHYSICS & ADVANCED TECHNOLOGIES

“A Self-Consistent Average-Atom for Laboratory Plasmas applied to Equation of State and Transport Coefficient Calculations of Dense Media,” by Gerald Faussurier. 10:30 a.m., Bldg. 219, room 163. Contact: Stefanie B. Landes, 2-3201

Friday
12

INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS

“The Roles of Radiation & Stellar Interactions in Star Formation,” by John Bally, University of Colorado. Noon, Bldg. 319, room 205. Contact: Wil van Breugel, 2-7195, or Sharon Taberna, 3-6290.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

“The Stanford Data Stream Management System,” by Jennifer Widom, Stanford University. 10 a.m., Bldg. 451, room 1025 (property protection area). For more information, see <http://www.llnl.gov/casc/calendar.shtml>. Contact: Ghaleb Abdulla, (CASC) 4-3557, or Leslie Bills, 3-8927.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH

“Early Experience in Splintering Communication Protocols,” by Barney Maccabe, The University of New Mexico. 10 a.m., Bldg. 451, room 1025 (property protection area). For more information, see <http://www.llnl.gov/casc/calendar.shtml>. Contact: Andy Yoo, (CASC) 2-3721, or Leslie Bills, 3-8927.

The deadline for the next Technical Meeting Calendar is noon, Wednesday.

THE HOME PAGE



Nursery provides safe haven for children in crisis

By Alane Alchorn
IBIS

Sometimes crisis wears a baby face. When it does, the Bay Area Crisis Nursery is there to wipe away the tears — mom and dad’s tears, too. Twenty-four hours a day, seven days a week. Every day. Every week. Located in Concord since 1981, BACN shelters children whose families are in crisis or engulfed by stress. It was founded on the belief that no parent wants to hurt a child — ever — and sometimes a little help can prevent a lot of hurt. All services are free, confidential and voluntary.

The nursery admits newborns and young children up to age 5. Older children, up to age 11, are received at Dahlstrom House, the BACN group home for school-aged youngsters. Dahlstrom House opened its doors for the first time in July, and its youthful guests proclaimed it “just like a real house.”

Clients are as varied as the difficulties they face. Any parent is invited to use the nursery when stress or crisis overwhelms the family’s ability to cope. No geographic limits apply. If the parent can get to Concord, he or she will discover a warm welcome and loving childcare: peace of mind during a troubled time.

The BACN Website explains: “If a parent feels they are in crisis, then they are in crisis. As long as the parent is willing to form a plan to end the crisis or reduce the stress, the nursery will work with them. Parents come due to physical, emotional or mental problems; they come when they can’t provide for their children due to loss of their homes and/or jobs; they come when they realize that their child is in control; they come when drug or alcohol addictions get the best of them. The nursery frees the parent of childcare responsibility so that they have time to focus their efforts on resolving the crisis.”

A minimum stay is 24 hours. The more common length is 7 – 10 days; and the maximum varies case-by-case, depending on the amount of time the parents need to resolve the crisis. The BACN Crisis Line is staffed day and night at (925) 685-8052.

Additionally, nursery staff can arrange respite care to mitigate particularly stressful events such as medical procedures, or to relieve parents who must also provide eldercare. A respite is typically prearranged as a 48-hour stay, once a month for up to six months, as the crisis abates.

Approximately 80 percent of the nursery’s funding comes from individuals such as HOME contributors and from local organizations. Bay Area business and civic groups actively support BACN, providing many of the supplies and ser-

vices children consume in quantity.

Even the Website at www.bacn.jkmas.com/start.html reflects this broad-based support. Bandwidth is donated by JKMAS, Inc., a Walnut Creek firm. Community fundraisers, and corporate and foundation grants supply the balance of the nursery’s annual income.

Volunteers are encouraged to lend their talents in: childcare, general office work, newsletter writing and production, marketing or public relations (the committee meets the first Tuesday of every month) and seasonal fundraising events.



BAY AREA CRISIS NURSERY

Dahlstrom House is the Bay Area Crisis Nursery’s six-bed residential care home for school-aged children of families in crisis or under stress.

For more information about the nursery and its Dahlstrom House adjunct, contact Sister Ann Weltz, BACN’s executive director, or Community Relations Coordinator Sandy Hathaway on the office line at (925) 685-6633. Send e-mail inquiries to bacn@worldnet.att.net.

Home Campaign contributions as of Dec. 5:
\$1,111,792

Directorate	Total Employees	Employee Contributions	Amount Donated	Percent Participation
Director’s Office	116	59	\$34,443	50.9%
Energy & Environment	304	103	\$37,262	33.9%
Computation	992	291	\$141,723	29.3%
Chemistry & Materials Science	482	154	\$92,556	32.0%
Safety & Environmental Protection	738	251	\$87,964	34.0%
Physics & Advanced Technologies	350	128	\$66,239	36.6%
Defense & Nuclear Technologies	370	131	\$71,520	35.4%
Lab Services	1451	460	\$128,798	31.7%
Safeguards & Security	374	40	\$13,185	10.7%
National Ignition Facility Programs	191	71	\$28,885	37.2%
Engineering	2090	538	\$241,779	25.7%
Chief Financial Officer	99	55	\$16,427	55.6%
Nonproliferation, Arms Control & International Security	243	90	\$44,763	37.0%
Admin. & Human Resources	219	143	\$34,053	65.3%
Biology & Biotechnology Research	222	37	\$15,496	16.7%
Johnson Controls	65	65	\$51,222	N/A
Retirees	58	58	\$4,050	N/A
Others	7	7	\$1,427	N/A
Total Participation	8,371	2,681	\$1,111,792	32.0%

Drawing the HOME crowd



FRANK NUÑEZ/IBIS

Patricia Axelrod, far right, presented HOME incentive drawing prizes to the winners on Dec. 2. Left to right are Dale Johnson, Applebee’s \$25 certificate; Debbie Lofrisco, San Francisco Giants autographed photo of Andres Galarraga; Julie Fietz, Pleasanton Sheraton weekend stay for two; and Steve Asztalos, Granada Bowl Family Fun Package. Not pictured is Judy Reid, Applebee’s \$25 certificate.



CLASSIFIED ADS

See complete classified ad listings at
<https://www-ais.llnl.gov/newsline/ads/>

AUTOMOBILES

1993 - Plymouth Grand Voyager,Loaded.4 bucket seats, Infinity stereo, trailer hitch etc. 138,000mi.Low blue \$3700 asking \$3500. 925-606-1791

1994 - Mazda Miata, black/tan leather, 5 spd, new top/ glass window, full power, AC, new tires, excellent condition, HDTP available. \$6200 209-943-2166

1994 - Honda Civic LX, blk, 108k mi, at/ac, new brakes, tires, radiator, custom lights, paint, alarm, CD, \$4,400 OBO 925-447-8557

1995 - Saturn SL2, 4 door sedan, 5 speed, AC, moonroof, dark blue, good condition, \$3000 925-699-3831

1999 - Merc. Cougar V6 2 door hatchback, 5 speed, all power, AM,FM,CD, alloy wheels, 58K, excellent cond. \$8,250 OBO 925-455-4988

1994 - TOYOTA TERCEL DX, Blue, 2 door, 106kmi Perfect condition, too much to list. New smog, Way below book at \$2,450. 510-490-6605

2000 - Acura TL - Silver, Leather, 53,000 miles, V6, Automatic, AC, Pwr Everything, CD. All required maintenance completed. New Tires. \$17,000. 925-425-3373

1995 - Honda Accord LX 125K miles 5 speed Runs GREAT, GREAT condition, GREAT commuter car. Power everything. Euro lights included. \$6,000 209-914-3217

1997 - Dodge Intrepid, AT, PS, PB, AC, PW, PL, AM/FM cass., 12 CD chngr, excel. cond, 110 K hwg mi. \$ 3900. 925-449-3894

02 - BMW 325Ci, 6cyl, 5spd, Blue, 44,600 miles, Sport Package, Moonroof, Heated Seats, Xenon Lights, Rear Spoiler, Warranty. \$26,995 707-494-6689

1991 - Acura Integra Ls all power.Electric sun roof. Runs great. 143K miles. \$3300.00 O.B. Cell 525-4030 209-824-0227

2001 - Honda Civic EX, 4 door, PS, PW, ABS, AC, CD, 5 speed manual, vtec engine. Less than 17,000 miles. Warranty! I owe \$13,000 make offer. 925-200-3037

1989 - Camaro conv. Fully loaded, V8, low miles. In excellent condition. \$6200 OBO 925-443-2115

1995 - Chvy Tahoe w/leather, AT, all power/air, am/fm stereo CD/cas, alloy wheels, new tires, tow pkg w/elec brake/roof rack, excel cond, 136K,\$9800OBO 831-637-1949

1979 - chevy 1/2 ton suburban 4X4 many \$\$\$ in new parts, needs work, as is 1200.00 925-449-5626

2000 - Honda Civic LX, 4 door, AT, PS, PB, AM, FM, Alarm, keyless entry 89K mi. \$8900 OBO 925-447-7455

1987 - Dodge Van Conversion 318 Engine Runs Very Good, Very good on gas, modular wheels 61,000 miles \$3,500 209-835-5645

1989 - Acura Legend L. Original owner. Good condition. Leather interior. Below blue book. \$2,100.00. 510-481-7355 or 925-455-6648

1991 - BMW 325i Convertible: 103k miles; V6 5 speed manual; excellent condition. \$6100 o.b.o. 209-629-2060

1991 - Toyota LandCruiser; 141k miles; 6 cyl; loaded; Asking \$6500 o.b.o. 209-823-8538

1990 - Mazda MPV Van 4x4, V6, auto, 7 passenger, 126K miles. Runs good. \$3,000.00/OBO 925-443-1903

2000 - Ford Mustang Coupe, 3.8L V6, Automatic, Silver with Spoiler, Fully Loaded, Alloy Wheels, 23,900 Miles, Excellent Condition, \$9000 OBO. 925-447-4480

AUTOMOBILE ACCESSORIES

Parting out 1984 BMW 325E, driveline, wheels, interior parts, misc. call for price. 209-943-2166

2 ski racks - used on Jeep Cherokee, and Honda Accord - \$25 each 209-599-6838

Weld Racing Super Single II wheels. New in boxes. Qty.4, Size 17x10, 6x5.5 GM Truck bolt pattern. \$900 209-333-7218

Austrian Pewag rear wheel snow chains (hoop style) easy on. \$25.New car battery charger \$15 209-835-2416

BICYCLES

26inch ladies TREK 720 multitrack 21 speed bicycle \$80 and 25inch Ladies Motiv Stone-grinder mountain bike \$70 925-449-8034

Bell bicycle helmet, original cost \$42.00 sell for \$20. like new in box 925-449-1823

BOATS

34ft.Magic off-shore speedboat.Twin 454 Magnum engines, 200 hrs: sleeping cabin; 40ft.triple axle trailer.\$76,000 OBO. 510-908-5943 or 925-634-9399

CAMERAS

CAMERA - Linhoff 5X7 technica w/two lenses, 4X5 reducing back, film holders, case. New bellows. Great Condition \$2500. 925-447-4804 or 925-828-0318

CAMERA - Wista 8X10 w/300 mm Symmar, film holders, filters, case. Excellent Condition. All for \$1500.00. 925-828-0318 or 925-447-4804

Kodak DC215 digital camera. 2x Zoom, comes with software. Works great. \$100. Cell 525-4030. 209-824-0227

ELECTRONIC EQUIPMENT

Apple G4 PowerBook 500 Mhz 1Gb RAM 60 Gb HD Airport card Includes Sony CD Burner, BookEndz docking station 2 power supplies, 2 batteries,+ \$1000 OBO 925-516-6740

Compaq CPU, keyboard & mouse: 750 MHz AMD Duron, 320 MB RAM, 30 GB HD, CD, DVD, Win XP, Word Perfect. \$200 925-294-9022

Older 13 inch Zenith television. Very sharp picture. \$15. 925-456-0968

NEC MultiSync 97F, 19 inch Flat Screen CRT Monitor (Black). Appox. 1 year old, works great. \$180 obo. 925-240-9753

5 1/2 foot CD tower made of sturdy cast iron. Holds about 180 CDs. \$40.00 925-838-9302

Microsoft XP Home Full Edition. Sealed never used, legal. No box no book just sealed CD. \$70 925-455-0847

Video games, PS-2 & Gamecube. Too many to list. \$15-\$20. All in great shape w/ original cases and instruction booklets. Some strategy guides. 925-447-1360

Klipsch Cornwall II speakers, med. oak cabinets, \$500/pair 925-245-1574

Sony Digital Surround Sound Amplifier GX800ES, 100Watts output. Includes two Sony 12 inch speaker systems. Excellent condition. \$350.00/OBO. 209-836-1506

GIVEAWAY

White, long-haired guinea pigs FREE to good home. Good with children. Various ages, sex unknown. 925-371-6128

Large snake/ lizard cage, FREE 925-455-1730

Motorola, 27-inch, color, TV. Works good, you pick up. 925-443-3621

HOUSEHOLD

GE Frostfree Refrigerator - 22 cubic ft., Almond color, freezer on top, great condition. \$85.00 925-443-7656

Oak Desk 5 yrs old. Great condition. \$100.00 209-835-4225

Recliner, rocks and swivels, cream fabric, excellent condition. \$50 or b/o. 925-828-3364

Oak rolling computer cart/desk, with pull out keyboard and printer trays. \$100. 925-294-9022

Refrigerator, white, 65 inches high, 32 inches wide, 28 inches deep, freezer on the bottom. \$60. 925-443-4612

Futon - queen. Top of the line. Like new. 3 mos. old. Includes sheets. 2 drawers under armless frame. Light colored wood. \$450. 925-296-0084

Four-piece sofa, loveseat, chair, ottoman \$200; Sofabed \$75. Mostly good condition. 925-828-3143

Drafting table, top 30x48 w/adjustable legs to change height. Great condition. \$35. 925-229-2240

Shower stall - corner unit, 38 in. across, still in box, 1/2 price. \$150 925-455-1355

Gorgeous teal color Italian leather sofa, love seat, and chair. All pieces recline and are brand new. Valued at \$8000.00 asking \$2800.00/BO 925-516-8925

SEARS Kenmore side by side white (28cuft) Refrigerator with ice and water dispensor. 4 years old, excellent condition \$450 OBO 925-516-9170

AIR Compressor, Husky 125 psi, 4 gallon, \$149 at home depot, yours for just \$60 209-836-3481

Childs Loft Bed - Twin size, book case and dresser ends, desk and chair in between. Oak. \$300 OBO. 925-454-8486

Clawfoot Tub, antique, 4-1/2 ft., very good condition, \$650/BO 925-373-0247

5 drawer upright and 6 drawer side-by-side whitewash dressers, heavy/good quality/great condition, pd \$700+ sell \$100/set 925-890-8857

Dining table with 4 chairs. Oak top/seats with white legs. \$40 925-455-8609

Almost new-barely used full size mattress and box springs, with bed frame - \$135.00 209-599-6838

Oak table w/4 chairs, \$400.00; 2 oak barstools, \$20.00 ea., hutch/buffet, \$350.00. All in very good condition. 925-443-9110

FULL SIZE MATTRESS + BOX-SPRING, \$50 obo. Sealy posturepedic, good condition. U pick up. (Dublin). upgraded to queen, do not need. Avail 12/15. 408-835-3453

Computer work station with oak veneer. Has two file drawers, pull-out keyboard tray plus bookcase and top shelf. like new \$75 925-449-8034

Just moved, need to sell:off-white sofa, loveseat, coffee table, 2 end tables, exc. condition \$975 OBO Brentwood. 240-1585 or 925-634-9313

Full size bedroom set like new with head-board, dresser/mirror and 2 night stands - \$400. You haul. 209-833-0337

Working washer and electric dryer. \$100 for the pair. 209-239-3833

Couch and extra pillows. Baige/grey. Inherited - almost new. \$200 925-443-6531

Solid oak entertainment center. Open style with 8 shelves/compartments. 72 tall x 58 wide x 16.5 inches deep. Holds 27 inch TV. Asking \$85. 925-606-0825

22.2 cu ft Yellow-Kenmore,18.6 cu ft Tan-Signature Refrigerators both \$75 each. Washing Machine Large Load Maytag \$75 209-549-7550

Jenn-Air Electric Stove-Top. Black glass, smooth top, radiant heat. 4 years old, works great, have books/original receipt. \$150, OBO. 925-447-4797

Queen size water bed. Includes bladder, all structural pieces, working heater, fill/drain hose, hardware. \$150 B.O. 925-743-9104

Toddler bed + mattress, excellent condition, \$80. Call after 6 pm. 925-455-4947

PALI BABY CRIB. Excellent condition. Single drop side. Converts to Daybed. Bottom storage drawer. Mattress Incl. Orig. \$300, sell \$100. 209-914-1736

Antiques , Oak armiors 3ea at 4feet wide, Oak secratary, Hump back trunk. Wind up phonograph player. 209-606-6445

Dinning set. Extendable table with 6 chairs (\$750), china cabinet and hutch with glass doors (\$450). All solid wood, walnut-stained pine. 925-830-8640

LOST & FOUND

Pair of Oakley sunglasses in breakroom of trailer 2679. Come to t2679 rm1211. 925-292-2524

MISCELLANEOUS

Lathe. This is a small lathe - \$250 in good shape. 209-823-6501

Peg-Perego Stroller, Navy blue Pliko Sherpa, \$120. Wooden doll house, reconfigures and disassembles, \$50. 925-294-9022

Toning Tables (Used by Oakland Raiders).

Get in shape without the sweat! Three tables available \$300. 925-443-4612

BEANIE BABIES - pre 2000 over 150 babies. All like new with tags. Many premium bears. Whole lot only \$400. 925-447-4804 or 925-828-0318

DESK - Cherry wood, 7 drawer, 22x48 top. Dark finish w/inset writing pad. Very good condition. No particle board. \$250 you pick up. 925-828-0318 or 925-447-4804

Beanie Babies, variety of names, call for list and prices, \$1 to \$15. 925-833-8339

Game Bird Collector plates in original boxes. Some complete sets and some are singles. Call for specifics. Great Christmas gift for sportsman. 925-449-8034

Small secretary desk \$15. Beveled mirror in oak frame \$20. Dark wood desk \$30. 925-455-1730

NEIGHBORHOOD SALE Sat. 12/6 9-4, Sun. 12/7 10-4, Spyglass Hills Rd off N. Vasco Rd. Toys,games,books clothes,xmas,household items,Little Tykes,more. 925-243-1006

Toro riding mower, 11 HP, 32 inch mower, New battery and seat cover, good condition, runs great, \$450, OBO. 209-836-3481

Diamond Ring, .15 ct, size 6, \$200 OBO. 209-823-0234

Disneyland 2 day pass, park hopper, \$35.00 925-634-5606

Sunol Train Of Lights - Dec Sixth Reserved Tickets For Six - Best Offer 925-455-1392

Small stainless steel portable BBQ. Patented charcoal lighting system. Light and easy to use. \$100.00 newv, \$50.00 obo. Great shape, used once. 925-240-7374

Motorized Barbie Jeep, excl. condit. \$50 or BO ; Baby Jogger with Rain Shield \$50 or BO ; 925-828-2451

Fur (rabbit) coats (short, length) for mother and daughter (Ladies-Med.: girls-10). Never worn, any offer considered. 925-373-0314

Need quick sale: off-white marble-like dining table/6 mauve chairs. Exc. condition \$375 OBO. Brentwood. 240-1585 or 925-634-9313

Walnuts (in shell) \$1/lb. 925-443-1547

7X42 Zeiss Classic binoculars,rubbercoated, like new condition.\$650.00 925-454-1749

Doll house. 3 story farmhouse-style wooden doll house, dolls and furniture. \$75 firm. 925-447-3092

Hot Wheels cars, approx.160 cars, all in blister packs, many are First Editions, will deal on all or partial collection. asking price \$0.75 each 925-455-1959

2 tix for Cirque Du Soleil Alegria. 12/21 1PM at Pac Bell Park. Good seats. Pd \$75.45 ea, asking same. Would make a good Christmas gift! 925-699-1025

Bun and Thigh Rocker exercise machine. Was \$160 new. selling for \$40. Perfect condition with different strength bands and manual. 925-443-1066

Used 12 ft 3-legged wooden picking or pruning ladders in good condition. \$20.00 each. or 209-892-6993

MOTORCYCLES

1999 - Honda Xr 100, Daughters Bike, Supertrap Exhaust, New Tires, \$1500 Obo Call 925-516-6552

2003 - Kawasaki Ninja ZX-6R, warranty valid thru 3/2007, only 700 miles, \$7,500 510-861-2340

1999 - Yamaha Kodiak 400 W-Wheel Drive Rolled, needs some work \$2000 , call 925-321-2155 209-832-7655

1981 - Kawasaki 440 twin 23k miles, no dents or scratches, good paint, at 65mph gets 65mpg, smooth light cruiser, comfy seat, tach, center stand, \$800 925-443-6531

1972 - Honda Trail 90, red, excellent condition, looks like new, spare gas tank, luggage rack, includes two new helmets (M & XL) call for pics \$1000 firm 925-683-7795

1994 - Harley Dyna Low Rider, 17K, detachable windshield, sissy bar & saddle bags. 3 seats, carb., cam, pipes, chrome, extras. Excellent. \$12500 obo 925-634-4408

1972 - 1000cc Harley Chopper, New Sheet metal,rear mag,etc. King/Queen seat w/sissy

bar. Not run for years. Need new tires & front brake. \$1,500.00 925-606-7725

2002 - XR650R, Well taken care of. Stock except for renthal bars and sticker kits. \$4000 or best offer. 209-825-7702

MUSIC INSTRUMENTS

Music amplifier. Reavea TKO80. \$50/best offer. 209-606-6445

PIANO - Winters Company spinette w/bench. Good condition, dark finish, needs tuning. \$600 you pick up. 925-828-0318 or 925-447-4804

Yamaha keyboard PSR GX76 w/stand, seat and deluxe padded case. Over \$400.00 new. Needs power pack (costs \$15.00 online). \$200.00 obo 925-240-7374

Kohler upright PIANO. Good condition. \$350 or best offer 209-606-6445

PETS & SUPPLIES

Large Nylabone (plastic) pet carrier, folding, animals up to 60 lbs, \$45. 925-294-9022

Himalayan Female - free to good home ONLY. She is about 1.5 years old, spayed and good with children. Have digital photos. 209-839-2266

Columbian Red Tail Boas 9 Weeks old \$50 209-836-3520

1 female AKC certified Boxer. 8 weeks old with 1st set of shots. \$750 to a good home. Beautiful markings can provide pics. 925-449-5861

Want to start an aviary with Zebra Finch, and help out the finch population explosion at our house? How does one dollar each sound? 925-373-0314

3 Year old cat needs a new home. Long haired Tabby, neutured and up to date with shots. He is declawed and is inside only. 209-599-5071

RECREATION EQUIPMENT

Pro-Form 650 CardioCross Trainer. Elliptical w/ arm workout, heart rate sensor. \$150 925-294-9022

Go-Ped Sport Scooter, excellent condition, runs great. 300.00 or OBO 925-672-3296

Sear 1in. slate Pooltable with cue sticks incld. \$500 or BO.Stockton.(209)468-6860.

325 gallon WATER TANK for pick up truck - best offer. Stair Stepper - best offer 925-455-1392

SADDLE:17 inch, Crosby Equilibrium All Purpose Saddle; excellent condition, BO 925-634-2307

Titleist 981 irons. 3-PW. Rifle shafts. \$200.00 925-838-9302

NordicTrack Ski machine, \$150. Was \$800 new. Perfect condition. Includes pulse monitor, goal, settings, etc. 925-443-1066

RIDESHARING

Express your commute, call 2-RIDE for more information or visit <http://www-r.llnl.gov/tsmp>

Modesto Vintage Faire Mall Park-n-Ride - Immediate opening Daves Luxury vanpool, captain seats, reading lights cellphone work hours 8-4:45 ridership-based fares, 209-544-2236, ext. 3-3194

Orinda - Lamorinda carpool seeking 4th rider/driver. Lab hours 8am-4:45pm. Meets at 24 and St. Stephens. 925-253-0498, ext. 2-9823

BERKELEY - Rider/driver needed to complete a four person carpool from north Berkeley. Leave Berkeley- 7 am. Leave LLNL-4:40 pm. 510-524-8332, ext. 2-5949

SERVICES

Heating and air conditioning installation and repair. Certified installer, free estimates. 925-828-6190

ClutterLess (CL) Self Help Group. Is CLUTTER stressing you out? Mondays 7-8:30 PM. Just come: Pleasanton Chamber of Commerce, 777 Peters Ave, or call 925-443-0766

Due to space limitations, *Newsline* may withhold ads that have already run. They will still appear on the Web.

Lab reps invited to inauguration

At least four people from LLNL attended the inauguration ceremonies for Gov. Arnold Schwarzenegger Nov. 17 on the Capitol grounds in Sacramento.

Among the 8,000 invited guests were LLNL Executive Officer Ron Cochran, Fire Chief Randy Bradley, Battalion Chief Jim Watkins and Barry Schrader of Public Affairs.

Bradley said he and Watkins were two of four chosen from Alameda County by the governor’s office to represent fire chiefs from across the state, and they were given a special position seated up front and to the side of the podium. He said they got to see some famous Hollywood personalities up close, including Danny DeVito, Kenny G.,

Jamie Lee Curtis and Vanessa Williams. Williams also sang the National Anthem.

Watkins added: “It was an impressive occasion and exciting to be a part of an event that resulted from the first recall in California’s history.”

Cochran, who represented the Lab at the ceremonies, said: “The ceremony was well done — a celebration, but businesslike and subdued at the same time.

“The governor’s speech was inspirational, pointing out how carefully directed hard work can produce successful solutions to difficult problems...Those of us from Livermore were truly privileged to be part of such an historic event.”

Lab employees urged to update emergency contact info via Web

Employees are reminded to update their emergency contact information as well as home address changes.

Information may be updated via the Web. On the My LLNL page look in the Employee Center category and click on “Employee Self Service.”

Employees will need to use their LITE password to access and enter updated information.



SUPERCOMPUTING

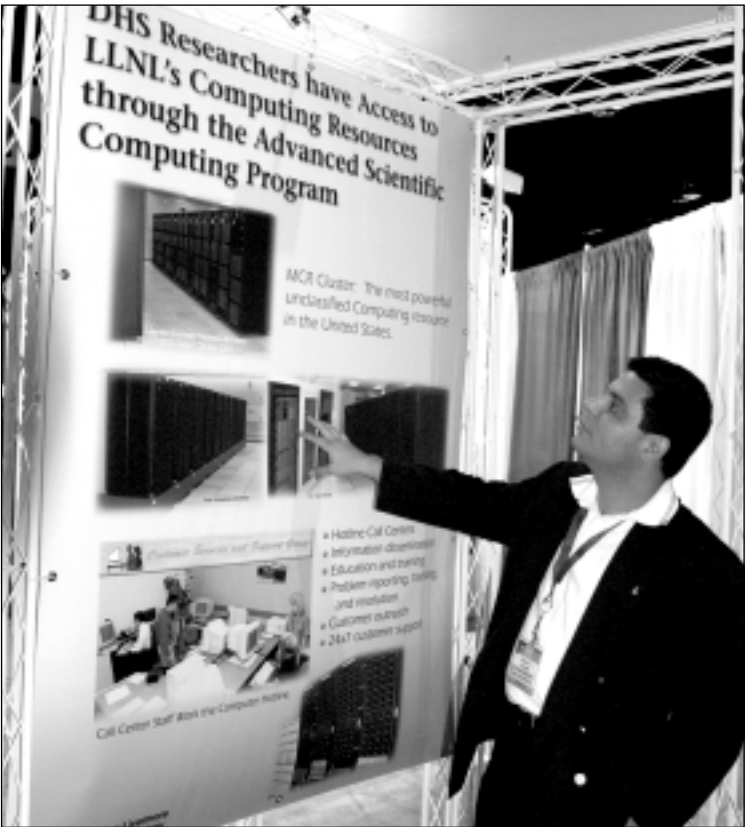
Continued from page 1

annual event, whose theme this year was “Igniting Innovation.”

A large ASCI booth bristled with Los Alamos, LLNL and Sandia personnel, including an LLNL team competing in the Bandwidth Challenge, a competition among supercomputer facilities to transfer massive amounts of data from one location to another.

The Lab team, with participants from the San Diego Supercomputer Center (SDSC) and the National Center for Supercomputing Applications (NCSA), won the “Both Directions Award” by achieving a data transfer rate of 9.02 gigabits per second between computers in various parts of the exhibit hall at the Phoenix Civic Plaza Convention Center, and a Linux cluster some 2,000 miles away in the NCSA machine room at the University of Illinois in Urbana-Champaign.

Team members in both locations accessed servers and read and wrote simultaneously to a single file, as well as to multiple files spread across the servers. The judges took special note that this demonstration showed that not all



The Department of Homeland Security's exhibit featured information about LLNL's Linux cluster supercomputer, the Multiprogrammatic and Institutional Computing Capability Resource (MCR). Attendee Youhan Mubarak noted that MCR is now ranked as the world's 7th fastest computer on the list of the top 500 supercomputers.

applications move data in only one direction.

IBM displayed a small section of its BlueGene/L prototype under development for LLNL. When completed in early 2005, the computer will be the world’s fastest. With 65,536 dual processors, it is targeted to peak at 360 trillion operations per second (teraflops). IBM’s prototype — the first module of BlueGene’s eventual 128 modules — is already fast enough to be ranked as the 73rd fastest computer in the world.

Intel used SC2003 to introduce “Thunder”, a fast new Multiprogrammatic and Institutional Computing (M&IC) supercomputer running Linux that will utilize Itanium-2 processors when completed early next year. With performance exceeding 20 teraflops, Thunder is expected to rank as the world’s second fastest computer when the next Top500 list is released in June.

The SC conference series is sponsored by the Institute of Electrical and Electronics Engineers Computer Society and the Association for Computing Machinery’s Special Interest Group on Computer Architecture.

Next year, SC2004 will be held Nov. 6-12 in Pittsburgh, Penn.

TUTORING in high school and college math and chemistry. 925-443-2095

Experienced Licensed Daycare in Livermore. Convenient location off East Ave. Available 1/5/04. Ages infant-18 mos. 925-443-2873

Pampered Chef Professional Kitchen tools & cookware, buy it or book a kitchen show and earn free products. 925-449-1340

Smooth Jazz R&B Saxophonist - Available for parties, corporate gigs, etc. Kenny G, David Sanborn, I play like em all..Demo available. 916-479-0807

SHARED HOUSING

Livermore - furnished room for rent. Clean/quiet. \$550.00/month. Share utilities 1/3. Mature adult. No pets/no smoking. Deposit required. 925-449-1128

Livermore - 2 bedrooms furnished available to rent (\$500 for each room including utilities, telephone and cable).Available now. Call 443-8448.

Livermore - Room for rent, \$550, female preferred. Master BR w/bath: full privileges. 925-443-9999

Pleasanton - Room for rent near the 580-680 freeways. \$550.00 per month includes Utilities. 925-846-4894

TRACY, - New homes 4 rooms available, \$350 to \$450/month, full privilege. Master bed

rooms also available. 209-832-4335

Livermore - Room for Rent \$550, plus 1/3 utilities, 1 mile to LLNL. no smoking/pets 925-989-6138

Discovery Bay - Spacious Bedroom w/own/Bathroom;Share kitchen & utilities. Non smoker/no pets. Female preferred. 925-437-4297

Livermore - Livermore room for rent, close to Lab. Available Jan. 1, 2004.\$550.00/mo, utilities and kitchen privileges included.Female, non-smoker, no pets. 925-443-0218

TO TRADE

Will trade my 4 drawer metal filing cabinet for your 2 drawer filing cabinet. Very good condition. Downsizing. 925-373-0247

TRUCKS & TRAILERS

1960 - 1960 Chevrolet Truck,Short Bed,Big back window, fleet side, 283 motor 350 trans, 5lug disk brakes,5lug rear end \$1500.00 209-522-4983

1995 - Camper Shell grey/felt lined Bob Pac for Toyota SR5/Tacoma. Sliding windows \$200 OBO 516-9170

1980 - Snug Top camper for fullsize Ford longbed. Fits 1980-1996. \$250 OBO 209-824-2177

1998 - Dodge Dakota 90K miles, CD player, good condition, \$10K. 209-469-9438

1974 - Miley Horse trailer Wide 2 horse, surge brakes, some rust \$900 209-832-7655

2000 - Jeep Wrangler Sport, Yellow,AC,AT,CD,PS,Cruise,ABS,AM/FM,War n 8k winch,KCdaylighters,39,000 miles,runs perfect,good condition, \$13000obo. 925-443-7433

1978 - Chevy One ton flat bed,new target 350 motor,rebuilt carb.,4 spd trans.with PTO setup.\$2900.00 or best offer 925-454-1749

1981 - GMC pickup, 454, 90K, good condition, towing pkg., \$2,800/OBO. 925-447-4161

1998 - Chevy \$10 LS extended Cab, Third Door, AC, Automatic, AM/FM CD, Dual Air Bags. Under Bluebook at \$8,500 209-577-6543

1995 - Circle J two horse big tack room, very good shape. \$3000.00. 209-239-2812

1979 - Chevy 1/2 ton long bed pick up, some damage, runs and drives, current tags, as is 500.00 925-449-5626

1993 - White fiberglass camper shell with carpeted headliner and tinted windows. Fits full size short bed pick up. Very good cond. \$350/offer 925-634-9973

2002 - Ford Explorer Sport, 5 speed, air, pw/pl,7,200 miles,like brand new,\$14,999. 209-835-2917

VACATION RENTALS

SOUTH LAKE TAHOE - 3 Bedroom 2 Bath Chalet, newly remodeled, nicely furnished, all amenities, close to all skiing, RESERVE NOW!CHRISTMAS WEEK OPEN! 209-599-4644

Soda Springs/Donner Summit, Classic A frame, 2BR/1BA+Loft, sleeps 8, Walk to Royal Gorge 5 min to Sugar Bowl \$250 wknd,\$550/week 209-836-3481

Lake Tahoe - Studio(kitchen, sleep 4) at Red Wolf Lodge at Squaw Valley available Feb 22-29. Ski-in ski-out 5 star resort. \$1050 925-449-0611

Puerto Vallarta -2BR/2BA beachfront condo, 2 pools & private beach. Available 1/1/04 - 1/8/04. Price negotiable. 209-545-1308

Solana Beach/ Del Mar - Oceanfront condo, deluxe 2br., 2 1/2 ba., fully equiped, tennis, pool, jacuzzi, gated and covered parking, near San Diego attractions 925-443-2271

South Lake Tahoe - - Big house,4bd/2ba,family rm w/frpl, hottub, game rm w/bar&pool table,great location,n/s/pet,Christmas OPEN! 925-968-3882

Pinecrest - Cabin available near Dodge Ridge skiing. 3 bdrm/2 bath, fireplace w/wood, microwave, pool table, level cleared access to covered parking, \$225/wknd 925-449-5513

Squaw Valley, Lake Tahoe - Studio(sleeps 4) in ski-in ski-out resort. Kitchen, jacuzzi,gym room, etc. Feb 22-29. \$1200. 925-449-0611

WANTED

Looking for a queen-size futon for a metallic frame. 510-525-1117

Wanted: Quilter to make custom quilt for reasonable fee. 925-449-0463

Seeking in great condition a Car Seat, Stroller, and Baby Crib for a brighter holiday family in need. 925-640-8291

I need a washing machine and refrigerator in good condition. 925-243-1622

1. White Washed Bookcase. Will consider most styles. 2. White Wash or Light colored wood entry table. 925-339-3323

Wanted...Exercise bike to be used for PT. Please call after 2pm. 925-447-5525

Services and merchandise listed in *Newsline* are not guaranteed. It is up to the buyer to scrutinize services purchased.



Richard Klein



Steven Hatchett



Erich Ormand



Christian Mailhiot



Giulia Galli



John Castor

FELLOWS

Continued from page 1

Castor, a physicist, was recognized for “ground-breaking work on radiatively driven stellar winds, and contributions to the theory of opacities, equations-of-state, and radiation hydrodynamics, including national security applications in high energy-density physics.”

“This very modest man has a keen intellect, which has produced first-rate and important work in national security in addition to the very fine research in astrophysics,” said Carol Alonso, a longtime colleague. “It has been a tremendous privilege to work with Dr. Castor over the years at LLNL.”

Steven Hatchett, whose award was originally announced in October, was cited for “seminal contributions to theory and experiments of implosion physics for inertial confinement fusion, and for innovative designs for fast ignition.”

Hatchett has a 20-year history of major contributions to inertial fusion and has become well known for innovative implosion designs for fast ignition. Hatchett is now playing a central role in identifying opportunities and requirements for implosion diagnostics on the National Ignition Facility.

Richard Klein, a theoretical astrophysicist and associate program leader for verification and validation of codes in AX Division, was selected for “pioneering contributions in computational astrophysics including star formation, radiatively driven stellar winds, instabilities in supernovae and magnetized neutron stars, and scaled laser experiments simulating strong shock phenomena in the interstellar medium.”

Klein’s specialty is astrophysical radiation-hydrodynamics. With colleagues at LLNL and LBNL and

his Berkeley graduate students, he implemented a new powerful approach, adaptive mesh refinement, to develop a new computer code to calculate numerical self-gravitational radiation hydrodynamics and has studied numerous astrophysical phenomena with this advance.

“The recognition from my peers both here and abroad makes me feel very good,” Klein said. “Having your colleagues throughout the country and the world acknowledge your work is what a large part of science is all about. You can’t help but feel good about that.”

“National awards and public recognition are very important to scientists whose work lies primarily in classified programs,” said Charlie Verdon, AX-division leader and supervisor to Castor, Hatchett and Klein. “While most of their national-defense research will never be available for public consumption, peer recognition by the APS attests to their quality as scientific researchers in the national and international arena.”

“It is quite an honor to be chosen,” added Galli, who leads the Quantum Simulations Group in the Physics and Advanced Technologies Directorate. “These are your peers telling you they think your work is truly valuable. That kind of recognition is what makes you feel good and keeps you going.”

Galli was cited for her “important contributions to the field of ab initio molecular dynamics and to the understanding of amorphous and liquid semiconductors and quantum systems.”

Though she knew she had been nominated for her award, Galli admitted she was still taken aback by the honor.

“Being formally recognized for significant scientific achievements by a community of peers in a spe-

cific area of research is a great honor,” added Christian Mailhiot. The leader of the Materials Science and Technology Division in the Chemistry and Materials Science Directorate, Mailhiot was recognized for his “outstanding contributions and scientific leadership in theoretical and computational condensed matter and materials physics, with particular emphasis on innovative discoveries related to quantum-confined semiconductor structures and high-pressure research.”

“I am truly honored to join the community of APS fellows,” Mailhiot said. “It is a tangible and explicit testimony that my scientific contributions in the areas of condensed matter physics — and in particular the properties of synthetically modulated semiconductor structures and high-pressure research — have had a measurable impact in the field.”

Like his colleagues, Erich Ormand also sees his APS honor as validation of his work. The acting group leader for the Nuclear Theory and Modeling Group in the Physics and Advanced Technologies Directorate, Ormand was cited for his “important contributions to nuclear structure physics, including both the ab initio shell-model calculations and the Monte Carlo approach; and for his contributions to nuclear physics as applied to the Stockpile Stewardship.”

Ormand conducts research in nuclear structure theory and nuclear reaction modeling, updating data for designers to ensure they “get the best nuclear physics in their codes.”

“I’ve been working in so many different areas, it’s nice to be singled out for it,” he said. “In a sense this reward is a recognition for doing a lot of hard work and establishing a solid research foundation.”

CONTRACTS

Continued from page 1

high quality, state-of-the-art science and technology and effective operations.”

The effort focused on DOE’s “major” laboratories, such as the Lab and LANL, which operate under the Federal Acquisition Regulations described for the Federally Funded Research and Development Centers.

The commission determined there are benefits to competition that could address management problems perceived under current operation of the laboratories. While the commission recommends high-level DOE performance evaluations of the laboratories as the basis for competition decisions, it also suggests that scientific and technical output “should have the greatest weight in evaluating contractor performance.”

The commission members recommend a five-step process that they believe provides “better linkage between performance and the compete or extend decision, allows flexibility in the process, encourages entry into the laboratory system of bidders with new and perhaps better management ideas and processes, and makes the review and competition processes tolerable

for all stakeholders.”

The commission believes that such a decision process will ensure that the focus on competition will lead to continuous improvement in contractor performance and allow truly outstanding contractors to be rewarded with significant contract extensions, in most cases up to a maximum of 20 years.

The commission also emphasized DOE provide clear statements of expectations, ensure fair and comprehensive reviews and provided advance warning of shortcomings in performance such that re-competition need not be a frequent occurrence.

The commission recommended that a two-step procurement process be developed that will provide assistance to highly qualified nonprofit bidders in responding to requests for proposals. The commission called on DOE to grant up to \$2 million to nonprofits to help defray the costs of preparing a competitive proposal to operate a national laboratory.

The commission specifically recommended that it was not inherently necessary for the contracts for the Los Alamos and Lawrence Livermore national laboratories to be managed by the same contractor. The commission suggested that the two contracts should not be

competed simultaneously in order “to allow all interested and qualified bidders to participate in the competition.”

Though UC has not made a decision on whether it will compete to manage the Lab, LANL or even Lawrence Berkeley National Laboratory, UC President Robert Dynes stressed the University will move forward under the assumption it will compete. The final decision will be based on the parameters in the requests for proposals.



MILLER

Continued from page 1

tor of Corporate Services at E & J Gallo Corporation. There he managed uniformed protective forces, and oversaw access-control and central-station monitoring, computer security, investigations and pre-employment screening.

During a career spanning three decades, Miller has worked with various government agencies on policy

development and funding strategies, and served as a liaison with law enforcement. He holds a bachelor’s degree in Business Administration/ Marketing from California State University at Chico.

“Russ’ experience and insight into issues facing the department, and his ability to work cross-functionally while accomplishing his goals will serve him well in this new position,” Leary said. “I look forward to working with Russ on the security challenges that face the Laboratory, now and in the years to come.”

Newsline
UC-LLNL
PO Box 808, L-797
Livermore, CA 94551-0808